JA

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/701,747

DATE: 09/05/2001
TIME: 10:38:41

Input Set : A:\620-123.app

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                         England, Steven
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                         Chen, Chih C
           6
                         Akopian, Armen N
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           9 <120> TITLE OF INVENTION: Ion channels
         11 <130> FILE REFERENCE: 620-123
         13 <140> CURRENT APPLICATION NUMBER: US 09/701,747
C--> 14 <141> CURRENT FILING DATE: 2001-01-29
         16 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01743
      17 <151> PRIOR FILING DATE: 1999-06-03
      19 <150> PRIOR APPLICATION NUMBER: GB 9811965.4
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TIME: 10:38:42

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,747

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Input Set : A:\620-123.app

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      107 65
      109 Phe Leu Tyr Gln Ala Ala Ser Leu Ala Arg Gly Tyr Leu Thr Arg Pro
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PATENT APPLICATION: US/09/701,747

Input Set : A:\620-123.app

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				Asn			2.31				Gly	2.33					
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					260					Z 0 0					2,0		
1.5	1 1 /			Phe 275	Gln				280					200			
***	148	Leu	000	Gln				295					300				
1	#149 #151	Pro	Glu	Leu	Gln	Gly	Tyr	Ser	Ala	Tyr	Ser	Val	Ser	Ala	Cys	Arg	Leu 320
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f	4 - 0				210					.340					200		Pro
32	==== = = = = = = = = = = = = = = = = =			255					- 360					505			
	U 163	Суз	270	١				- イ/ካ					200				Ile
Ę	166	Ser	Met	. Val			ુર વાત					ンフン					Arg 400
ì	≟167 169	/ 385 Eys	o s Tyr	Asn	Arg	Asn	Glu	Thr	Tyr	Ile	Arg 410	g Glu	Asn	Phe	Leu	Val 415	Leu
	170)	37 m 3	Dha	Dha	405	Δla	Lei	ı Thr	Ser	Gli:	, ı Ala	Met	: Glu	Gln		g Ala
					400	١				4/-	1				100		
	175	5 Ala	а Туз	r Gly	/ Let	ı Ser	Ala	Lei	ı Leu	ı Gly	/ Asp	Leu	ı Gly	/ G15 445	7 Glr	n Met	Gly
				4 7 6	-				441	1				1 1 -	•		o Tyr
				^				715	`				700	,			
	18	1 Il	e Ty:	r Glu	ı Val	L Sei	Tr	Asp	Arg	g Lei	Ly:	s Arg 479	g Val	L Trp	o Arc	g Ar	g Pro 480
																	y Leu 5
	18	7 G1				s Gl	ı Glı										a Glu
	18 19	8 0 Gl	y Gl	y Gl	50 y Al	o a Se:	r Ası	n Le	u Le	u Pr	o As	n Hi	s Hi	s Hi	s Pro	o Hi	s Gly
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			o Pr 53	o Gl	y Se	r Le	u Ph	e GI 53	u ASI 5	ii Eil	G MI	u cy	_				
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TIME: 10:38:42

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,747

Input Set : A:\620-123.app
Output Set: N:\CRF3\09052001\I701747.raw

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205 207 S	Ser	Ile	Gln A	Ala	Phe I	Ala S	Ser S	ser	ser	TIII.	пеи т	.115 (J + y .	30		
208				20	_			0	25	Tuc	Ara i	Ala 1	i.eu	Trp.	Ala	Leu
208 210	Ile	Phe	Ser '	Tyr	Glu .	Arg 1	_eu :	Ser 40	Leu	гуз .	ALG A	.1	45			
211 213 (
214 216		50		_	5 1 -	0	22	uie	His	Val	Thr	Lvs	Leu	Asp	Glu	Val
217 219	65		~	G1	T 0.11	πh.~	Dha	Pro	Ala	Val	Thr	Leu	Cys	Asn	Leu	Asn
□220 □222		-1	70	nha	00	Gln	Val	Ser	Lvs	Asn	Asp	Leu	Tyr	His	Ala	Gly
□ 223 ■ 225		.	T 011	100	T All	T.e.11	Asn	Asn	Arq	Tyr	Glu	Ile	Pro	Asp	Thr	Gln
225	Glu	Leu	115	мта	пеа	ПСФ		120		-			125			
226 228	34 - t	717	TIJ	Glu	Lvs	Gln	Leu	Glu	Ile	Leu	Gln	Asp	Lys	Ala	Asn	Phe
228	Met	130	мэр	Olu	בינם	0_11	135					140			_	3
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235 1 237	Glu	Ala	Cvs	Ser	Ala	Glu	Asp	Phe	Lys	Val	Val	Phe	Thr	190	ıyr	GTÄ
□ 238□ 240	Lvs	Cys	Tyr	Thr	Phe	Asn	Ser	Gly	Gln	Asp	GLY	Arg	205	Arg	шса	. Lyc
241		-	195					200	~ 1	T	C1.,	T10	Mot	T.eu	Asc	Ile
243	Thr	Met	Lys	Gly	Gly	Thr	Gly	Asn	GLY	Leu	GIU	220	1166	пса	110 P	lle
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250				_	245	<u> </u>	Dh.a	C1,	, Wal	230 21a	, Pro	Glv	Phe	Gln	Thi	? Phe
252	Phe	: Ile	a Asp	Gln	Leu	GIY	Pne	GT)	265	. 1110		V-1		270	ı	
253			_	260) (1)		7. ~ ~	(T.e.1	. Tle	, Tvr	Leu	Pro	Ser	Pro	Tr	o Gly
256	5	_	275	71-	. 17-1	Ψhr	Mot	· Asr	s Sei	Asr) Phe	Phe	Asp	Ser	Ту	r Ser
258	Thi	с Су:	s Asn	1 Ala	i Val	- 1111	295	. 110 ₁		1		300)			
259)	29) . 71 =		- Arc	Tle	Asr	Cv:	s Glu	ı Thi	r Arg	y Tyr	Lei	ı Val	L Gl	u Asn 320
261	. 116	e Thi	r Ala	а суз	o wr	310) .	1.			315	5				320
262	30	5	- C116	- 7\r	- Met	- Val	His	s Me	t Pro	o Gl	y Asp	o Ala	a Pro	о Ту	с Су	s Thr 5
264	. Су:	s AS	п суз	י אדי	32!	5				33	0				33	5 17-1
265	ס קרו די	o (21	n G1	ገ ጥv	r Lv:	s Gli	ı Cy:	s Al	a As	p Pr	o Ala	a Lev	ן As	p Ph	е Le	u Val
26	i Eti	0 91	ند ب	34	_ <i></i>		-		34	5			~	35	U ~ T ~	u ሞኮድ
200	ן בו י	11 T.V	s Ası	p Gl:	n Gl	и Туг	с Су	s Va	l Cy	s Gl	u Me	t Pro	э Су	s As	пге	u Thr
2/(O GT	u Lly	ر د د د			-										





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PATENT APPLICATION: US/09/701,747

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Input Set : A:\620-123.app

Output Set: N:\CRF3\09052001\I701747.raw

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0.7.4		270					イ/り					500					
276	Ala	Lys	Tyr	Leu	Ala	Lys	гуs	Pne	ASII	гуз	395	Olu	0111	+] -		400	
277	385		_	_		390	7	T10	Dho	Dha	G111	Val	Leu	Asn	Tvr	Glu	
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280	Thr				405	T	חות	Пих	Clu	Tlo	Δla	Glv	Leu	Leu	Gly	Asp	
	Thr	Ile	Glu	GIn	Lys	Lys	Ald	туг	425	110	1114	011		430	_	-	
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289 291		450		-		C1 ~		Clu	Δla	T.vs	Ara	0	Ser	Ala	Asp	Lys	
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<u> </u>	465			-	0	4.70	7 an	Aen	Val	Lvs	Ara	His	Asn	Pro	Cys	Glu	i
291 292 294 295	Gly	Val	Ala	Leu	ser	Leu	Asp	Азр	vai	490					495		
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= 297	Ser	Leu	Arg		птъ	FIU	ALG	OLY	505	2	- 1			510			
<u>1</u> 298 1 300	_	•••	77.2 m	500	7 ·1 ⊃	λνα	Glv	Thr			Asp	Phe	Thr	Cys			
~\\\\300 ================================	Pro	HIS			Ата	ALG	Ory	520			•		525				
基 301 量 305	-01	0 > 0	515		. 1												
7	<21	2 7	VDE.	DNA													
truf		a. 0	D C T N I	TOM.	Do+	tus	norv	regic	us								
308 N 310) <u> </u>	0> C	FOLL	NCE:	4			•									0.6
10 211	tag	azat	asa Togu	act c	t aac	ca o	rtccc	a									26
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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.





VERIFICATION SUMMARY

PATENT APPLICATION: US/09/701,747

DATE: 09/05/2001 TIME: 10:38:43

Input Set : A:\620-123.app

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L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
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بريد ت
   -4,
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    4
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